

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Alfred I-Tsung Pan et al.

Confirmation N.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: PRINTABLE COMPOSITIONS HAVING ANISOMETRIC NANOSTRUCTURES FOR USE IN  
PRINTED ELECTRONICS

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before  
mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the  
pendency of this application, please charge any fees required or credit any overpayment to Deposit  
Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with  
copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s)  
believe(s) may be material to the examination of this application and for which there may be a duty to  
disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications  
and other foreign language information listed on PTO Form 1449, as presently understood by the  
individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the  
attached sheet, or where a foreign language patent is cited in a search report or other action by a  
foreign patent office in a counterpart foreign application, an English language version of the search  
report or action which indicates the degree of relevance found by the foreign office is listed on form PTO  
1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EV 329 938 260 US**

Date of Deposit **9/18/2003**

I hereby certify that this is being deposited with the  
United States Postal Service "Express Mail Post  
Office to Addressee" service under 37 CFR 1.10 on  
the date indicated above and is addressed to:  
Commissioner for Patents, Washington, D.C.  
20231.

By



Typed Name: **Emily Meham**

Respectfully submitted,

**Alfred I-Tsung Pan et al.**

By



**Gary P. Oakeson**

Attorney/Agent for Applicant(s)

Reg. No. **44,266**

Date: **9/18/2003**

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO. <b>200313618-1</b>	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT <b>Alfred I-Tsung Pan et al.</b>		
	FILING DATE	GROUP	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,882,722	03/16/1999	Kydd	
	1B	6,248,674	06/19/2001	Kamins et al.	
	1C	6,537,359	03/25/2003	Spa	
	1D	6,563,132	05/13/2003	Talroze et al.	
	1E	6,586,095	07/01/2003	Wang et al.	
	1F	20020005876	01/17/2002	Grimes et al.	
	1G	20020132361	09/19/2002	Vossmeier et al.	
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	EP 1207572	22.05.2002	Dr. Sugnaux		
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	Hara, Akito, Fumiyo Takeuchi and Nobuo Sasaki, "Mobility enhancement limit of excimer-laser-crystallized polycrystalline silicon thin film transistors," JOURNAL OF APPLIED PHYSICS, Vol. 91, No. 2, pp. 708-714, 15 Jan. 2002.
1R	Snow, E.S., J.P. Novak, P.M. Campbell and D. Park, "Random networks of carbon nanotubes as an electronic material," APPLIED PHYSICS LETTERS, Vol. 82, No. 13, pp. 2145-2147, 31 Mar. 2003.
1S	Xia, Younan, Peidong Yang, Yugang Sun, Yiyang Wu, Brian Mayers, Byron Gates, Yadong Yin, Franklin Kim and Haoquan Yan, "One-Dimensional Nanostructures: Synthesis, Characterization, and Applications," ADVANCED MATERIALS 2003, 15, No. 5, pp. 353-389, March 4, 2003.

EXAMINER

DATE CONSIDERED